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RESEARCH PAPER P-394

# ECONOMIC RELATIONSHIPS IN THE PROVIDENCE, RHODE ISLAND, METROPOLITAN AREA

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January 1968

Office of Civil Defense  
Office of the Secretary of the Army  
• Washington, D.C. 20310

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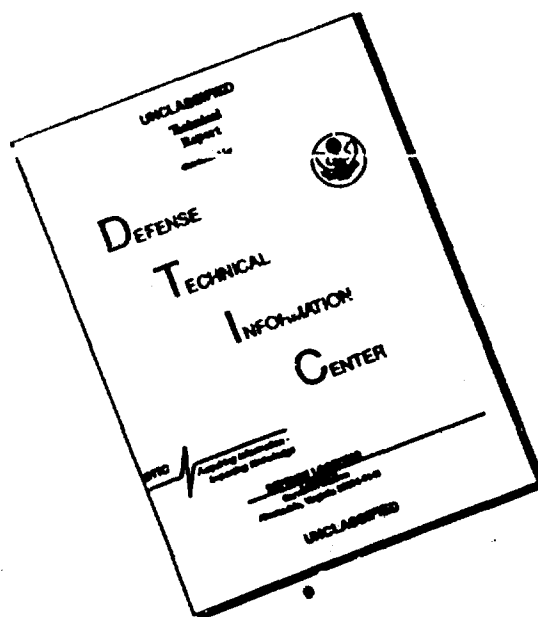


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Contract OCD PS-66-113  
Subtask 4131A

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## SUMMARY

This Research Paper presents the 1963 interindustry transactions data and coefficients for the Providence, Rhode Island, Standard Metropolitan Statistical Area in the same form as the 1958 national interindustry table prepared by the Office of Business Economics, U.S. Department of Commerce. The data are presented in five large (removable) tables: Interindustry Transactions, Direct Requirements per Dollar of Gross Output, Total Requirements (Direct and Indirect) per Dollar of Delivery to Final Demand, Imports by Producing Sectors, and Direct Import Requirements per Dollar of Gross Output.

The text of the paper describes the tables, shows how they are used, and suggests feasible applications for these data both in Civil Defense planning and industrial economic planning.

## FOREWORD

The research effort underlying the work described in this paper was performed by Brown University under contract to the Institute for Defense Analyses. This work was performed as part of Task Order 4131A, Evaluation of a Crisis-Oriented Civil Defense System under Contract No. OCD-PS-66-113 with the Office of Civil Defense, Department of the Army.

The information presented here is based on empirical data supplied by business concerns and governmental agencies located in the Providence Standard Metropolitan Statistical Area. Dr. Caleb A. Smith of the Economics Department at Brown University supervised the gathering of the data and the development of Interindustry Transaction and Input Tables. IDA supervision and guidance for the study were provided by Mr. William C. Truppner and Dr. Philip A. Newman of the Civil Defense Economics Project. The computer processing and programming required for developing the tables was directed by Mr. Dale L. Moody of IDA. The editing of this report was by Mr. Leonard G. Bates.

Dr. Abner Sachs, Leader  
Civil Defense Project

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### INPUT-OUTPUT MATRICES (Contained in Back-cover Pocket)

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## SUMMARY

This Research Paper presents the 1963 interindustry transactions data and coefficients for the Providence, Rhode Island, Standard Metropolitan Statistical Area in the same form as the 1958 national interindustry table prepared by the Office of Business Economics, U.S. Department of Commerce. The data are presented in five large (removable) tables: Interindustry Transactions, Direct Requirements per Dollar of Gross Output, Total Requirements (Direct and Indirect) per Dollar of Delivery to Final Demand, Imports by Producing Sectors, and Direct Import Requirements per Dollar of Gross Output.

The text of the paper describes the tables, shows how they are used, and suggests feasible applications for these data both in Civil Defense planning and industrial economic planning.

# I

## INTRODUCTION

The interindustry data for the Providence Rhode Island area are presented here as an aid to both those performing economic research on that specific area and those interested in local input-output analysis in general. The data are presented in five matrices (Tables I through V) inserted in the envelope pocket of this paper. These tables of interindustry transactions and coefficients follow the same classification and definition of sectors as the 1958 national interindustry table prepared by the Office of Business Economics, U.S. Department of Commerce.<sup>1</sup>

The tables show in detail what each sector purchases from each other sector within the Providence area as well as from external sources, both domestic and foreign. Similarly, the tables show the distribution of each sector's output to household consumption, business investment, and local and federal government agencies. Exports by each sector to external outlets in the United States and foreign countries are also shown.

The data were developed for an IDA study concerned with the evaluation of alternative civil defense systems. One of these systems, Movement to Shelter (MTS)<sup>2</sup>, proposes to move large segments

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1. "The Transactions Table of the 1958 Input-Output and Revised Direct and Total Requirements Data," Survey of Current Business; U.S. Department of Commerce, Office of Business Economics (Washington, D.C.: September 1965). For more detailed sector definitions see Industry Description Appendix to Input-Output Study - 1958; U.S. Department of Commerce, Office of Business Economics (Washington, D.C.: November 1964).

2. Jack Faucett and Grace J. Kelleher, Economic Relationships in the New Orleans Metropolitan Area, Research Paper P-347; G. Kelleher, The Live Saving Potential of Movement-to-Shelter: A Case Study of the New Orleans Metropolitan Area, Study S-302; G. Kelleher and Dale Moody, Economic Impact of Activating a Movement-to-Shelter System: A Case Study of the New Orleans Metropolitan Area, IDA S-303; All are publications of IDA, Program Analysis Division, (Arlington, Va. 1967-68).



of the populatio. from urban areas to reception centers located in peripheral areas of low target interest. With the local input - output table available, it becomes possible to evaluate the effects of interrupting or decreasing production in various sectors of the local economy. This, in turn, provides data to determine which workers to evacuate and in which order.

Another civil defense application of these data would be in post-attack recovery studies where damage assessment evaluation is required to determine the effect of losses in capacity on the local and national economies.

The local input-output data should provide an excellent tool for the study of economic development problems and economic projections in urban development planning. They are of value also in identifying and projecting markets for new products for sale to industrial users and for development of capacity for sales to the local markets by local producers. The local data may be used to determine the degree of self-sufficiency in the area, the dependence of the area on locally produced or imported raw materials, and the importance of transportation links with other parts of the country.

The tables are described in detail in Section II. Section III discusses the procedures used in developing the Providence data.

## II

### DESCRIPTION OF THE PROVIDENCE SMSA 1963 INPUT-OUTPUT TABLES

#### A. TABLE I - INTERINDUSTRY TRANSACTIONS

The input-output transactions or flow table for the Providence SMSA follows the same definitions and classifications of sectors as the 1958 national interindustry table prepared by the Office of Business Economics.<sup>1</sup> It shows across the row, how much of a given sector's output was used by each of the industries of the economy to make its own products and how much went to final demand. The columns show the dollar value of each sector's consumption (input) of the raw materials, semi-finished products, and services used from the various local industries, imports, and its value added (the sum of capital consumption allowances, profits and proprietors' incomes, compensation of employees, etc.). The row total (output) for each sector is equal to its column total (input). The gross area product or unduplicated output is the sum of the value-added row in the table.

The Providence table is consistent with the national table with the three following exceptions:

- (1) External factors income flows (shown in the "rest-of world" account in the national table) have not been derived.
- (2) Measures-of-inventory and inventory revaluations were not developed.
- (3) In the national table, competitive imports are shown as transfers to corresponding primary (producing) sectors, whereas in the Providence table all imports are shown as direct inputs to the final consuming sectors.

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1. Survey of Current Business, op cit.

B. TABLE II - DIRECT REQUIREMENTS PER DOLLAR OF GROSS OUTPUT

This table shows the interdependence among the various producing industries by characterizing a specialized economy which fabricates semi-processed goods and various business services for combination into still further advanced stages of fabrication. Each column shows the inputs that the consuming sector named at the top of that column requires from each of the industries named at the beginning of the rows to produce one dollar of its output. For example, in order for Sector 1, Livestock and Livestock Products, to produce one dollar of output, it requires .155 of a cent of its own production; 34 cents from Sector 2, Other Agricultural Products; 4.3 cents from Sector 69, Wholesale and Retail Trade; 27 cents from Sector 80, Imports, etc.

This table contains the information necessary to determine what production would be necessary from each and every industry for any one given industry to produce its output for distribution to final demand or to other industries. For example, if Sector 14, Food and Kindred Products, produces \$1 million of net output for sale to the final consumer it would have to produce a total output of \$1,011,481 ( $\$1,000,000/1.0-.011351$ ). Sector 1 would be required to produce \$48,166 ( $\$1,011,481 \times .047619$ ); Sector 68, Electric, Gas, Water and Sanitary Services, would have to produce inputs of \$5,006 ( $\$1,011,481 \times .004949$ ); \$383,514 ( $\$1,011,481 \times .379161$ ) of inputs would have to be imports; and so on for each input to the Food and Kindred Products Sector.

Each sector which received a requirement for its products from Sector 14 places, in turn, demands on other sectors for its inputs. For example, in order for Sector 68 to produce \$5,006 of net output it imposes a demand of \$27 ( $\$5,006 \times .005458$ ) on itself, which requires a total production of \$5,034 ( $\$5,006/1.0-.005458$ ). The level of output of Sector 68 now requires \$14 ( $\$5,034 \times .002674$ ) from Sector 70, Finance and Insurance, and so on through the matrix.

These calculations can be repeated until the total amount of output required from each sector to produce a net output of \$1 million of Food and Kindred Products for the final consumer is

derived. However, these totals can be obtained more directly by the use of the next table in which the relationships in Table II have been completely traced and summarized.

C. TABLE III - TOTAL REQUIREMENTS (DIRECT AND INDIRECT) PER DOLLAR OF DELIVERY TO FINAL DEMAND

The columns of this table show the direct and indirect dollar output that is required from the producing sector named at the beginning of each row for each dollar of deliveries to final demand by the consuming sector.<sup>2</sup>

Using the same example of producing \$1 million of Food and Kindred Products, it can be seen that it is no longer necessary to trace the demands of output from sector to sector. Instead it is possible to calculate quite simply the total output required to provide final demand with an additional \$1 million of Food and Kindred Products. The column for Sector 14 shows that almost \$1,013,000 ( $\$1,000,000 \times 1.012529$ ) is required in total from Sector 14; over \$48,000 ( $\$1,000,000 \times .048291$ ) from Sector 1; a little over \$6,000 ( $\$1,000,000 \times .006124$ ) from Sector 68; and so on for every sector affected by Sector 14.

D. TABLE IV - IMPORTS BY PRODUCING SECTORS

The Survey of business firms in Providence provided specific information on the local or non-local origin of each input to each sector. This made it possible to allocate the purchases of inputs from sources outside the local economy directly to each of the local sectors, the total being the same as row 80 (Imports) of Table I. These imports are treated here as fixed inputs proportionate to the production of the final products of each sector. Each column

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2. See Hollis B. Chenery and Paul G. Clark, Interindustry Economics (New York: 1962, John Wiley & Sons, Inc.) for mathematical procedures for use in converting direct requirements to total requirements.

of Table IV shows the imports that a (local) consuming sector requires from the producing sectors (located outside the economy) named at the beginning of a row.

E. TABLE V - DIRECT IMPORT REQUIREMENTS PER DOLLAR OF GROSS OUTPUT

The direct import requirements relate the imported inputs of each consuming sector to its total output. Each column of the table shows the inputs that the local sector named at the top of that column required from each of the external sectors named at the beginning of the rows to produce a dollar of its output. The difference between Tables II and V is that Table II shows the producing sector of only locally produced inputs whereas Table V shows the producing sectors of only the inputs that are imported.

### III

#### PROCEDURES USED IN DEVELOPING THE INPUT-OUTPUT TABLES<sup>1</sup>

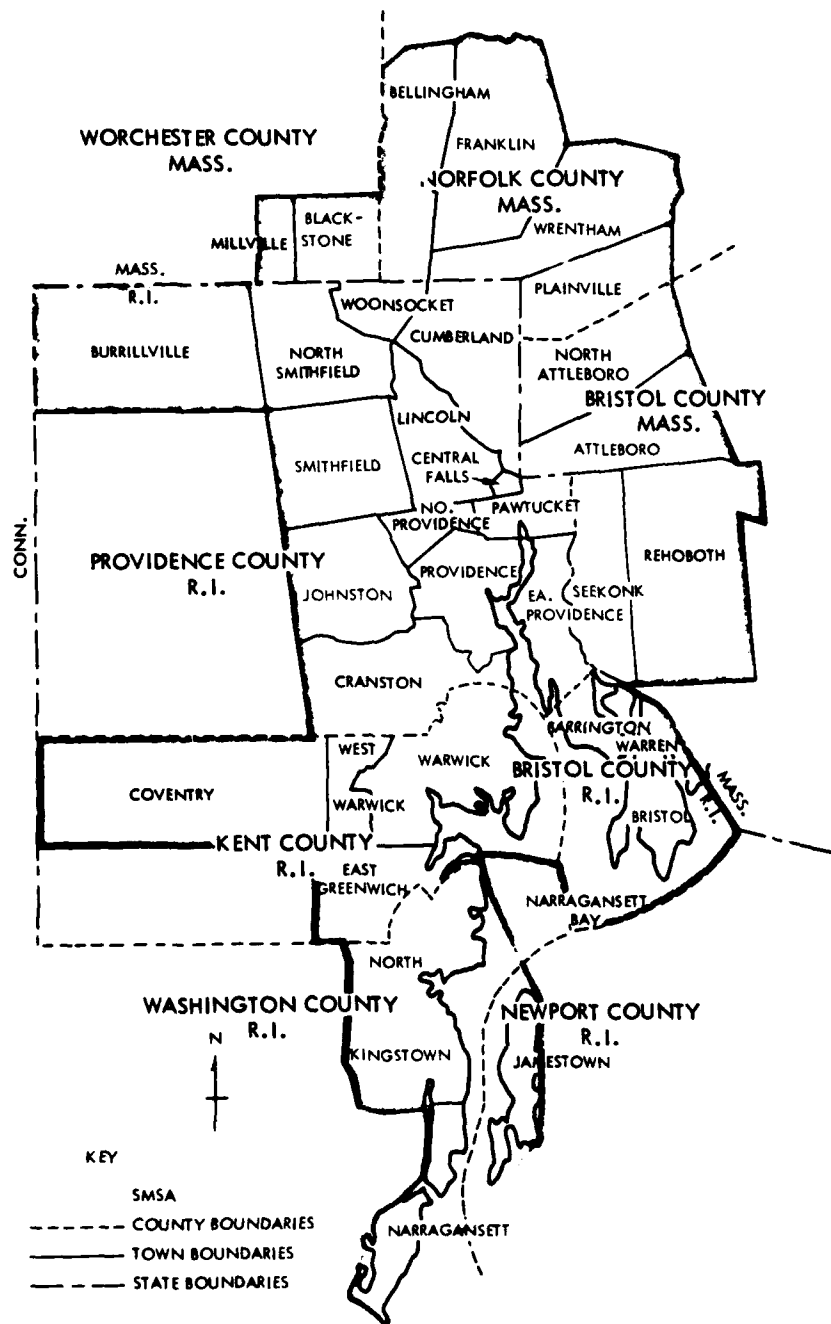
As mentioned earlier the table of interindustry transactions for the Providence area is with minor exceptions conceptually and statistically consistent with the national interindustry table of the Office of Business Economics and a similar IDA Input-Output Study of the New Orleans SMSA.<sup>2</sup> Consistency between the local and national tables makes it possible to relate the component measures of gross area product with those of G.N.P. and, generally, to study the relation of the local economies to the national economy. This section discusses some of the methods used in developing the Providence table.

The SMSA was selected as the area boundary for Providence as in other civil defense studies. However the geographical composition of the Providence SMSA caused a number of problems not encountered in similar local studies. The boundaries of New England SMSA's do not follow county lines (Figure 1). For example, one town in Providence County, Rhode Island, one in Newport County, R. I.,

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1. The detailed analyses and complete procedures for developing the Input-Output analysis of the Providence SMSA has been published in a separate report for those students and researchers in the field who may be interested in the exact methods used to develop such a matrix: Dr. Caleb A. Smith, Methods Used in Developing Input-Output Tables for the Providence Standard Metropolitan Statistical Area, 1963, prepared by the Brown University Department of Economics for The Institute for Defense Analyses (IDA Internal Note N-542 R). This publication may be obtained on application to the Department of the Army, Office of Civil Defense, Systems Evaluation Division.

2. Survey of Current Business, op. cit., Faucett and Kelleher, op. cit.



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FIGURE 1. Providence-Pawtucket-Warwick Standard Metropolitan Statistical Area (Rhode Island - Massachusetts) Showing County Boundaries

three towns in Bristol County, Massachusetts, four in Norfolk County, Massachusetts and two in Worcester County, Mass. are included in the SMSA. Obviously, this division among counties and between states posed considerable difficulty in assembling data. In addition, much of the information available on the national and state levels is not available on the local level. Eighty-five percent of the population of Rhode Island is contained in the Providence SMSA. Approximately ten percent of the SMSA population resides in Massachusetts towns.

#### A. MANUFACTURING

Questionnaires developed jointly with Jack Faucett Associates were sent to manufacturing establishments in the Providence SMSA. Information obtained from these questionnaires, which included inputs by sector and the location inside or outside the SMSA of the supplier, was the basis of the study.<sup>3</sup>

##### 1. Control Totals

In order to develop input coefficients that would be representative of the product mix of this area, separate output control totals were developed for each four-digit SIC industry in the Providence SMSA. Data on numbers of plants by size groups was compared with figures of the average shipments of all plants in each size group in the United States. The resulting figures for each four-digit industry were used to determine preliminary shipment estimates. These estimates were then compared to total shipment figures for three- and two-digit industries from a special compilation obtained from the Bureau of the Census. Adjusted totals

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3. Samples of the questionnaires are presented in the Appendix to the Smith research, IDA Internal Note N-542(R).



were compared with the data developed for the New Orleans study. Obviously, the validity of these output estimates depends on how well a given four-digit industry in the Providence Area is represented by the national average shipments of that employment size group.

## 2. Input Coefficients

Where a sufficient number of responses to the information questionnaires were obtained, coefficients for material inputs were determined directly. For all other SIC four-digit industries, these coefficients were obtained from an input-output study of the Philadelphia area.<sup>4</sup> It is believed that these coefficients were more similar to those of the Providence area than the national coefficients developed from OBE worksheets. When the Philadelphia study showed unallocated material inputs for the SICs used in any sector of more than 0.50 percent of output of the sector (and often when the percentage was less than this) the unallocated inputs were allocated, after a study of the OBE table, on the basis of our knowledge of the character of the enterprises in the SMSA. Material inputs for four-digit SICs comprising only 2.05 percent of the estimated output were obtained by inflating data for a broader group, usually all the rest of the sector, while 0.70 percent were obtained from OBE coefficients which pertained to an entire sector.

Only one sector (Sector 65 - Transportation) developed data that were not satisfactory because many establishments showed no inbound transportation costs, and also because questionnaires returned from the trucking industry indicated that only a small portion of inbound transportation charges were paid by the local establishments. However, inputs from questionnaires sent outside the SMSA did include

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4. Walter Isard, Thomas W. Langford, Jr., and Eliahu Romanoff, Philadelphia Region Input-Output Study (Unpublished Study).

transportation and warehouse charges. Therefore, to bring these charges down to producer's cost (the conventional way of showing inputs in an input-output tabl ) coefficients were calculated from the margins obtained from the Polenske Report.<sup>5</sup>

Inputs for Sector 69 (Wholesale and Retail Trade) could not be obtained from the questionnaires as this would require knowledge by the receiver of the supplier's cost of doing business. The questionnaire did, however, ask whether inputs were obtained from the producer or from wholesalers or retailers located in the Providence SMSA. Almost all purchases by wholesalers were from producers outside the SMSA; all purchases by businesses from wholesalers or retailers were assigned to producers outside the SMSA after deflating for trade margins.

#### B. NONMANUFACTURING SECTORS

The output of each nonmanufacturing sector was developed separately from census and other published information. The outputs then were compared for consistency to the national totals and the Faucett New Orleans study.

In developing local input coefficients, questionnaires were mailed to firms in the wholesale trade, construction, and transportation industries. However, the poor quality of most replies made it necessary to rely on national figures to estimate inputs for these sectors. Special studies were made of several large utilities in the SMSA and these data were used to supplement national coefficients in estimating inputs to these industries.

#### C. SECONDARY PRODUCTS

Many plants produce more than one product and in many cases these products are not all grouped in the same sector. The plant

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5. K. R. Polenske, Study of Transportation Requirements Using National and Multiregional Input-Output Techniques, Department of Commerce Clearinghouse (Washington, D.C.: April 1967).

is classified in the sector of its principal products and secondary products are usually distributed in the input-output tables with the output of the sector which is producing these products as primary products.

In Providence, transfers were made to Sector 68 (Electric, Gas, Water and Sanitary Services) from Sector 79 (State and Local Government Enterprises). Three transfers were made to Sector 73 (Business Services) from Sector 26 (Printing and Publishing), Sector 66 (Communications), and Sector 67 (Radio and T.V. Broadcasting). All output in Sector 81 (Business Travel, Entertainment and Gifts) and Sector 82 (Office Supplies) are transfers from other sectors.

#### D. FINAL DEMAND

##### 1. Estimated Personal Consumption Expenditures

Estimation of Personal Consumption Expenditures was done in two steps. First, disposable personal income was estimated by proportioning the Rhode Island personal income by a factor equal to the Providence SMSA proportion of the state population. The 1965 SMSA population was determined by adding the Massachusetts portions modified by the Rhode Island growth factor to the figures from a Special Census of Rhode Island. The naval population on board ships was eliminated from these figures.

Then the SMSA estimated Personal Consumption Expenditure was obtained by multiplying this derived disposable personal income by the ratio of the United States Personal Consumption Income to disposable personal income. Minor adjustments were made to correlate this figure with others estimated by other sources.

##### 2. Government Purchases

Expenditures by the governments of the states of Rhode Island and Massachusetts in the Providence SMSA were not available. State expenditures tend to be concentrated in the capital city, especially in a small state. The population of the SMSA is 95.53 percent of

that of the state of Rhode Island. It seemed reasonable to estimate expenditures in the SMSA by the two state governments at 98 percent of the entire general expenditure by Rhode Island. Total local government expenditures were allocated on a per capita basis for the four cities making up the SMSA (Providence, Pawtucket, Cranston and Warwick).

Expenditures by the Federal Government were estimated by using information on numbers of persons employed and median earnings of these government employees from the 1960 census.

Only new construction expenditures were reported by the State governments. For local expenditures, the state ratio of total capital outlay was used. Federal purchases of new construction were estimated by using the ratio of these purchases to state and local purchases in the 1958 national input-output table.

### 3. Gross Private Fixed Capital Formation

The Census of Manufactures reports new capital expenditures by two- and three-digit SIC codes for the Providence SMSA. Capital expenditures for SIC major industry groups 21, 24, 25, 29, and 37, which amounted to less than four percent of the amount for all manufacturing industries, is not specified between groups because of disclosure restrictions. These industry groups are relatively unimportant in the SMSA, estimated shipments for them amounting to 3.7 percent of the shipments of all manufacturers in the SMSA. Capital expenditures for each of these groups were estimated in proportion to their estimated shipments. For the manufacturing sector, the reported amount by the Bureau of Labor Statistics of 22 percent of the total was used as an adjustment to allocate the dollar expenditures reported by the Census of Manufactures to account for capital investment in Sectors 13 to 64.

For the nonmanufacturing sectors, estimates were developed by applying the ratio of output to capital flow shown for the sector for 1958 to the output estimated for each sector for 1963 in the Providence SMSA.

Table I. INTERINDUSTRY TRANSACTIONS, 1963, PROVIDENCE SMSA  
(In Thousands of Dollars at Producers' Prices)

PRODUCING SECTOR	CONSUMING SECTOR													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Lumber and Lumber Products	466.5	15	...	...	...	...	...	...	...	...	...	205	187	...
2. Paper and Allied Products	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3. Furniture and Furnishings	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4. Textile, Apparel, and Textile Products	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5. Food and Kindred Products	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6. Chemical and Allied Products	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7. Rubber, Leather, and Plastics	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8. Stone and Clay Products	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9. Glass and Glass Products	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10. Metal and Metal Products	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11. Machinery and Equipment	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12. Transportation Equipment	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13. Miscellaneous Manufacturing	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14. Wholesale and Retail Trade	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15. Finance and Insurance	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16. Government	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17. Nonresidential Building	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18. Residential Building	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19. Construction	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20. Agriculture	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21. Fishing and Hunting	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22. Mining	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23. Quarrying and Mining	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24. Other Nonmetallic Mineral Products	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25. Petroleum and Petroleum Products	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26. Coal	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27. Electric, Gas, and Sanitary Services	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28. Communication	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29. Health and Welfare	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30. Education	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31. Recreation	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32. Other Services	...	...	...	...	...	...	...	...	...	...	...	...	...	...
33. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
35. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
36. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
38. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
41. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
43. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
45. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
46. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
47. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
48. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
49. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
50. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
51. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
52. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
53. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
54. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
55. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
56. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
57. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
58. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
59. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
60. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
61. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
62. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
63. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
64. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
65. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
66. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
67. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
68. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
69. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
70. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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72. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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82. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
83. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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99. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100. Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...

The zero entries at all places signify that no goods or services from each producing industry, imports in total are shown as a separate entry in the table.

(Data for 1963, Bureau of Economic Analysis, Providence, Rhode Island, Manufacturing Area)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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[illegible]

Equipment	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	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Table II. DIRECT REQUIREMENTS PER DOLLAR OF GROSS OUTPUT  
PROVIDENCE SMSA, 1963  
(Producers' Prices)

[illegible]

[TABLE 194] Summary Statistics on the Reg. 7000 Short Island Mammal for Area





[illegible]



Table III. TOTAL REQUIREMENTS (DIRECT AND INDIRECT) PER DOLLAR OF DELIVERY TO FINAL DEMAND  
PROVIDENCE SMSA, 1963  
(Producers' Prices)

[illegible]

(1) & (2) - same as ge testings in the Prim. sec., Okada Island, Metropolitan Area



## VAL DEMAND

[illegible]

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Category	Item	Unit	Price	Quantity	Total	Tax	Net Total
Office Equipment	Office Chair	1	150.00	1	150.00	15.00	165.00
	Office Desk	1	250.00	1	250.00	25.00	275.00
Furniture	Refrigerator	1	300.00	1	300.00	30.00	330.00
	Stove	1	200.00	1	200.00	20.00	220.00
Appliances	Washing Machine	1	180.00	1	180.00	18.00	198.00
	Dryer	1	120.00	1	120.00	12.00	132.00
Electronics	Television	1	100.00	1	100.00	10.00	110.00
	Radio	1	50.00	1	50.00	5.00	55.00
Tools	Hammer	1	10.00	1	10.00	1.00	11.00
	Screwdriver	1	5.00	1	5.00	0.50	5.50
Clothing	Shirts	10	10.00	10	100.00	10.00	110.00
	Pants	10	10.00	10	100.00	10.00	110.00
Food	Meat	10	1.00	10	10.00	1.00	11.00
	Vegetables	10	1.00	10	10.00	1.00	11.00
Miscellaneous	Books	10	1.00	10	10.00	1.00	11.00
	Stationery	10	1.00	10	10.00	1.00	11.00

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Table IV. IMPORTS BY PRODUCING SECTORS  
PROVIDENCE SMSA, 1963  
(In Thousands of Dollars at Producers' Prices)

PRODUCING SECTOR	CONSUMING SECTOR														
	1. Livestock and Livestock Products	2. Plant and Animal Products	3. Forestry and Fishery Products	4. Agriculture, Forestry and Fishery Services	5. Iron and Ferrous Metal Mining	6. Nonferrous Metal Mining	7. Coal Mining	8. Crude Petroleum and Natural Gas	9. Stone and Limestone Mining and Quarrying	10. Glass and Pottery Products	11. Nonferrous Metal Mining	12. Chemical and Allied Products	13. Textile Milling	14. Food and Kindred Products	15. Tobacco Manufacturing
1. Livestock and Livestock Products	368	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2. Plant and Animal Products	271	846	---	---	---	---	---	---	---	---	---	---	---	---	---
3. Forestry and Fishery Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4. Agriculture, Forestry and Fishery Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5. Iron and Ferrous Metal Mining	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6. Nonferrous Metal Mining	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7. Coal Mining	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8. Crude Petroleum and Natural Gas	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9. Stone and Limestone Mining and Quarrying	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10. Glass and Pottery Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11. Nonferrous Metal Mining	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12. Chemical and Allied Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13. Textile Milling	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14. Food and Kindred Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15. Tobacco Manufacturing	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16. Broad and Narrow Textiles, Yarn and Thread Mills	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17. Miscellaneous Textile Goods and Floor Coverings	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18. Apparel	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19. Miscellaneous Fabricated Textile Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20. Lumber and Wood Products, except Containers	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
21. Wooden Containers	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22. Household Furniture	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23. Other Furniture and Fixtures	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24. Leather and Allied Products, except Containers	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25. Paper and Allied Products, except Containers	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26. Printing and Publishing	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27. Chemicals and Allied Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28. Plastics and Synthetic Materials	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29. Drugs, Cleaning and Toilet Preparations	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30. Paints and Allied Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31. Petroleum Refining and Related Industries	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
32. Rubber and Miscellaneous Plastics Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
33. Leather Tanning and Industrial Leather Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34. Footwear and Other Leather Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35. Glass and Pottery Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
36. Stone and Limestone Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
37. Primary Metal Industries, Manufacturing	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38. Primary Nonferrous Metals Manufacturing	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39. Metal Industries	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
40. Heating, Ventilating and Air Conditioning Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
41. Machinery, except Marine Products and Ships	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
42. Shipbuilding and Marine Products	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
43. Engines and Turbines	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
44. Farm Machinery and Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
45. Construction, Mining and Oil Field Machinery	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
46. Materials Handling Machinery and Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
47. Metalworking Machinery and Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
48. Special Industry Machinery and Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
49. General Industrial Machinery and Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
50. Machine Tools	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
51. Office, Computing and Accounting Machines	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
52. Service Industry Machines	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
53. Electrical, Industrial, Equipment and Apparatus	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
54. Household Appliances	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
55. Electrical Lighting and Wiring Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
56. Radio, Television and Communication Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
57. Electronic Computers and Accessories	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
58. Miscellaneous Machinery, Equipment and Apparatus	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
59. Aircraft and Parts	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
60. Other Transportation Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
61. Instruments and Measuring Instruments	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
62. Optical, Photographic and Photocopying Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
63. Miscellaneous Manufacturing	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
64. Transportation and Waterway	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
65. Communication, Radio, and Television	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
66. Radio, Television and Communication Equipment	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
67. Electric, Gas, Water and Sanitary Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
68. Wholesale and Retail Trade	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
69. Finance and Insurance	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
70. Government Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
71. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
72. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
73. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
74. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
75. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
76. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
77. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
78. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
79. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
80. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
81. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
82. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
83. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
84. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
85. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
86. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
87. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
88. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
89. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
91. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
92. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
93. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
94. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
95. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
96. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
97. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
98. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
99. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
100. Miscellaneous Services	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

\* Excludes 100% foreign-owned industry transactions table, Providence SMSA, 1963

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Line	Account Description	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2
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Table V. DIRECT IMPORT REQUIREMENTS PER DOLLAR OF GROSS OUTPUT  
PROVIDENCE SMSA, 1963  
(Producers' Prices)

[illegible]

134 - 246 Rept. with cm the Pres. office, 44 New Island, Metropolitan Area.



Chemical and Allied Products	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2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UNCLASSIFIED

Security Classification

DOCUMENT CONTROL DATA - R & D		
(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)		
1. ORIGINATING ACTIVITY (Corporate author)		2a. REPORT SECURITY CLASSIFICATION
INSTITUTE FOR DEFENSE ANALYSES PROGRAM ANALYSIS DIVISION		UNCLASSIFIED
		2b. GROUP
3. REPORT TITLE		
ECONOMIC RELATIONSHIPS IN THE PROVIDENCE, RHODE ISLAND, METROPOLITAN AREA		
4. DESCRIPTIVE NOTES (Type of report and inclusive dates)		
5. AUTHOR(S) (First name, middle initial, last name)		
CALEB A. SMITH DALE L. MOODY		
6. REPORT DATE	7a. TOTAL NO. OF PAGES	7b. NO. OF REFS
JANUARY 1968	23	
8a. CONTRACT OR GRANT NO.	9a. ORIGINATOR'S REPORT NUMBER(S)	
OCD PS 66 113	RESEARCH PAPER P-394	
b. PROJECT NO.		
4131A		
c.	9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report)	
d.		
10. DISTRIBUTION STATEMENT		
This document has been approved for public release and sale; its distribution is unlimited.		
11. SUPPLEMENTARY NOTES		12. SPONSORING MILITARY ACTIVITY
		Department of the Army, Office of the Secretary of the Army Office of Civil Defense
13. ABSTRACT This Research Paper presents the 1963 interindustry trans- actions data and coefficients for the Providence, Rhode Island, Standard Metropolitan Statistical Area in the same form as the 1958 national interindustry table prepared by the Office of Business Economics, U.S. Department of Commerce. The data are presented in five large (removable) tables: Interindustry Transactions, Direct Requirements Per Dollar of Gross Output, Total Requirements (Direct and Indirect) per Dollar of Delivery to Final Demand, Imports by Producing Sectors, and Direct Import Requirements Per Dollar of Gross Output.  The text of the paper describes the tables, shows how they are used, and suggests feasible applications for these data both in Civil Defense planning and industrial economic planning.		

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